

# **SATELLITE LAND REMOTE SENSING ADVANCEMENTS FOR THE EIGHTIES**

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PRELIMINARY PROGRAM

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# **Pecora** **VIII**

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The Eighth William T. Pecora Memorial  
Remote Sensing Symposium

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Sponsored by:  
The National Aeronautics and  
Space Administration  
The National Oceanic and  
Atmospheric Administration  
The United States Geological Survey

**October 4-7, 1983**  
**Sioux Falls, South Dakota**

You are invited to attend a symposium which will provide current summaries of:

- Remote sensing developments by the leading countries in this field
- The transition of U.S. remote sensing satellite operations to the private sector
- U.S. policy on government research and development for future sensor systems
- Space Shuttle remote sensing projects
- Alternative and support system developments

The Pecora Symposium was established in 1975 to foster the exchange of scientific and resource management findings resulting from the use of remotely sensed data. The symposium series honors the memory of William T. Pecora, former Director of the U.S. Geological Survey and Undersecretary, Department of the Interior. Dr. Pecora played a major role in the development and establishment of this country's satellite remote sensing systems.

Pecora VIII shifts emphasis from the applications of remote sensing data, the overall theme of previous symposia in this series, to new and future methods of collecting, processing, and analyzing data. Invited papers will be presented on a number of timely subjects and exhibitors are invited to demonstrate data handling systems, especially in relation to microcomputer technology advancements, or to display current and planned satellite remote sensing advancements in terms of technology, services, or concepts.

## PRELIMINARY SCHEDULE

### TUESDAY, OCTOBER 4, 1983

8:30-9:30	Registration
9:30-12:00	Welcome and Symposium Overview NASA Land Remote Sensing Plans for the 1980's NOAA Land Remote Sensing Plans and Policy Geological Survey Land Remote Sensing Activities
Noon-1:30	Luncheon and Keynote Address by key administration spokesman on U.S. Satellite Remote Sensing Policy in the 1980's

1:30-4:30

### Invited Papers on Landsat 4 Results

The Evolution of the Landsat 4 System and Present Status  
Data Products and Processing Procedures  
Processing of Landsat 4 Thematic Mapper Data  
Landsat 4 Sensor Performance  
Landsat 4 Data Quality Analysis  
Analyses of Landsat 4 Digital Image Products  
Radiometric Analyses of Landsat 4 Products  
Analyses of Landsat 4 Data Products

6:00-8:00

### Cocktails and Hors d'oeuvres

### WEDNESDAY, OCTOBER 5, 1983

9:00-12:00

### Invited Papers on Landsat 4 Results

TM and MSS Cartographic Quality  
Land Cover Analyses Using TM Data  
Multidiscipline Applications of TM Data  
Photointerpretation of TM data with Emphasis on Forestry and Agriculture  
Agricultural Applications of TM Data  
TM Data Enhancement and Geological Findings  
Geological and Cartographic Analyses of TM Data

Noon

### Luncheon Break

1:30-5:30

### Alternative and Support System Developments

Geologic Applications of Airborne Synthetic Aperture Radar Data  
The Digital Cartographic Data Base  
The National High Altitude Aircraft Program  
Application of Metsat Data in Land Remote Sensing  
The Emerging Analytical Capabilities of Microcomputers  
Integration of Image Data into Geographic Information Systems



**THURSDAY, OCTOBER 6, 1983**

<b>9:00-12:00</b>	<b>Future Operational Satellites: Plans and Status</b> (Tentative Listings) The American Science and Technology Corporation COMSAT The Fairchild Leasecraft Project Space Shuttle Data Services Large Format Camera ESA ERS-1 Radarsat Mapsat
<b>Noon</b>	<b>Luncheon Break</b>
<b>1:30-5:00</b>	<b>Future Operational Satellites: The French SPOT Program</b> SPOT Overview SPOT System Conception and Program Status Flexible Programming for SPOT System Integration of Oblique Space Imagery into Geographic Data Bases Worldwide Distribution Plans Testing and Applications Using Simulated Imagery Simulation Exercise in Europe, Africa, Asia Simulation Campaign in the U.S.
<b>7:00</b>	<b>Pecora Awards Banquet and Address Providing Congressional Position on Current Policy Issues</b>

**FRIDAY, OCTOBER 7, 1983**

<b>9:00-12:00</b>	<b>Future Space Shuttle Experiments</b> Optical and Biological Land Cover Using a Shuttle-Mounted Multilinear Array Radiometer Shuttle Imaging Spectrometer Multispectral Imaging in the Thermal Infrared from the Space Shuttle Orbital Surveys of Solar Simulated Luminescence Shuttle Imaging Radar Research Facility Shuttle Digital Topographic Mapper Shuttle Polar Ice Sheet Sounder Man-Tended Multisensor Satellites for the Earth Sciences
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**REGISTRATION  
PECORA VIII SYMPOSIUM  
SATELLITE LAND REMOTE SENSING ADVANCEMENTS FOR THE EIGHTIES  
OCTOBER 4-7, 1983**

Name \_\_\_\_\_

Title \_\_\_\_\_

Organization \_\_\_\_\_

Phone \_\_\_\_\_

Address \_\_\_\_\_

Zip Code \_\_\_\_\_

\_\_\_\_\_ Pre-registration (\$95.00)

\_\_\_\_\_ Spouse (\$40.00)

\_\_\_\_\_ Student (\$20.00)

(Includes Luncheon, Socializer, and Banquet)

(Does not include Luncheon, Socializer, or Banquet)

Make checks payable to Pecora VIII Symposium and mail to:

Pecora VIII, P.O. Box 80937, Sioux Falls, S.D. 57116 by September 16, 1983.



The symposium luncheon will feature a keynote address by a ranking administration member on U.S. satellite remote sensing policy. Tuesday, noon, Ramada Inn.

A two-hour socializer for registrants to enjoy refreshments and make acquaintances is scheduled for the first evening of the symposium. Two cocktail vouchers and hors d' oeuvres are included with registration. Cash bar available. Tuesday, 6-8 p.m., Ramada Inn.

The Awards Banquet will feature the 1983 winner of the William T. Pecora Award in recognition of outstanding contributions of individuals or groups toward the understanding of the Earth by means of remote sensing. Dinner is included in the registration fee and commentary on America's Space Remote Sensing policy from a key member of Congress is anticipated. Thursday, 7 p.m., Ramada Inn.

#### **REGISTRATION:**

Registration may be made by use of the attached form. Pre-registration fee is \$95.00. On-site registration will be \$110.00. Registration for spouses will be \$40.00 (includes luncheon, socializer, and banquet). Registration fees for students will be \$20.00 (does not include socializer, luncheon, or banquet). Mail pre-registration form by September 16, 1983 to:

**Pecora VIII  
P.O. Box 80937  
Sioux Falls, S.D. 57116**

Make checks payable to Pecora VIII Symposium.

#### **HOTEL RESERVATIONS**

The Pecora VIII Symposium will be conducted at the Ramada Inn in Sioux Falls, South Dakota, where a block of rooms has been reserved for symposium participants. Special symposium rates have been obtained at the Ramada Inn. Rates are \$28.50 plus tax for single rooms and \$36.00 plus tax for double rooms. Participants are responsible for making their own reservations directly with the hotel. The address of the symposium hotel is:

**Ramada Inn  
2400 N. Louise  
Sioux Falls, South Dakota 57107  
Phone: (605) 336-0650**

#### **TOURS TO EROS DATA CENTER:**

Tours to the U.S. Geological Survey's EROS Data Center will be arranged throughout the symposium. There will be no additional fees for these tours.

#### **PROCEEDINGS:**

A bound volume of a Proceedings of all presentations will be distributed to registrants in January, 1984. Additional copies of the Proceedings may be purchased.